

JOSÉ FILIPE FERREIRA

FULL STACK DEVELOPER

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Software Engineer with 3 years of experience, specializing in React, Next.js, TypeScript, and Node.js, passionate about building visually appealing and robust web applications. Always eager to take on challenges and apply my skills.

WORK EXPERIENCE

Full Stack Developer

2022 - Present

I-Charging, S.A

- I played a key role as the principal developer for a full-stack web application that became a core product of the company, essential for managing both customer and internal EV charging infrastructure. This solution provides a comprehensive platform for real-time monitoring and management of charging stations.
- Collaborated directly with designers to convert Figma designs into fully interactive, responsive user interfaces.
- Worked within Agile and Scrum frameworks, participating in daily standups and sprints to ensure continuous and incremental delivery of features.
- Optimized database queries in MySQL and developed efficient RESTful services to facilitate seamless data interactions between the frontend and backend; integrated Elasticsearch for fast indexing and searching, significantly enhancing application response time and scalability when handling large data volumes.
- Key Technologies: React, Next.js, TypeScript, Node.js, MySQL, InfluxDB, Elasticsearch, Docker, Python.

Full Stack Developer

2021 – 2022

Heliotextil, S.A

- Conceptualized and built a full-stack web application from the ground up using JavaScript ES6, MySQL, HTML, CSS/SCSS, Bootstrap, and PHP. The application efficiently integrated Arduino sensor data and operator inputs to enhance production process efficiency. Notable features included job scheduling and real-time tracking of production activities, detailing metrics such as time and personnel involvement.
- Developed a robust system for collecting, processing, and analyzing real-time data, which significantly improved data-driven decision-making across the production line. Additionally, I created dynamic dashboards for performance monitoring, providing visual insights into key performance indicators (KPIs) such as machine uptime, operator efficiency, and job completion rates.

Operational Research

2019 – 2020

Curricular Internship

- Designed and implemented custom algorithms to solve complex scheduling and resource allocation problems using IBM CPLEX, resulting in a 20% reduction in delays across production.
- This project was selected for presentation at the XXI Congress of the Portuguese Operational Research Society in 2021, and was later referenced in a book on the topic.

EDUCATION

Master's in Computer Engineering and Web Technology

2022 - Present

University of Trás-os-Montes e Alto Douro

Integrated Master's in Industrial Engineering and Management

2015 - 2020

University of Aveiro

TECHNICAL SKILLS

HTML • CSS • Javascript • Typescript • React • Next.JS • Vue • Node.Js • PHP • Python • MySQL • MongoDB • InfluxDB • Elasticsearch • Jest • GIT • Docker • Linux • Scrum • Agile